## PATENT IN THE UNITED STATES PATENT AND TRADEMARK OFFICE (Case No. 00-713-i25)

In re Applica	ation of:	)
	Mirkin et al.	) Examiner: J. Riley
Serial No.	09/976,378	) ) Group Art Unit: 1656
Filed:	October 12, 2001	)
For:	Nanoparticles Having Oligonucleotides Attached Thereto and Uses Therefor	) Confirmation No.: 2333

## **RESPONSE TO NOTICE TO COMPLY**

U.S. Patent and Trademark Office Box Sequence, P.O. Box 2327 Arlington, VA 22202

Sir:

This is in response to the Notice to Comply mailed February 7, 2002. Attached is a paper copy of a substitute Sequence Listing and 3.5" diskette containing a computer readable copy of the Sequence Listing in accordance with 37 C.F.R. § 1.821(e). As requested by the Notice, Sections <220> - <223> have been inserted into SEQ ID NO. 57. In accordance with 37 C.F.R. §§ 1.821-1.825, the computer readable copy is identical to the paper copy filed with the disclosure of the application and the attached Sequence Listing. No new matter has been added to the application as a result of this submission.

Prompt consideration and entry of this response is respectfully requested.

Date: By:

Respectfully submitted,

Emily Miao
Reg. No. 35,285

McDonnell Boehnen Hulbert & Berghoff 300 South Wacker Drive, 32nd Floor Chicago, IL 60606 Telephone: (312) 913-0001

Telephone: (312) 913-00 Fax: (312) 913-0002





The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:-	09/976,378 -
Source:	OIPE
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THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

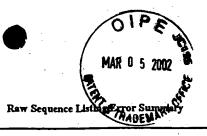
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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual ePAVE)
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Revised 01/29/2002



SERIAL NUMBER: 09/976, 378 SUGGESTED CORRECTION ERROR DETECTED attn: new rules cases: please disregard english "alpha" headers, which were inserted by pto software The number/text at the end of each line "wrapped" down to the next line. This may occur if your file Wrapped Nucleics was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will Wrapped Aminos prevent "wrapping." The rules require that a line not exceed 72 characters in length. This includes white spaces. Invalid Line Length The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; Misaligned Amino Numbering use space characters, instead. The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please Non-ASCII ensure your subsequent submission is saved in ASCII text. contain n's or Xaa's representing more than one residue. Per Sequence Rules, Variable Length Sequence(s) each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing. A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid PatentIn 2.0 Normally, Patentin would automatically generate this section from the "bug" previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences. missing. If intentional, please insert the following lines for each skipped sequence: Skipped Sequences Sequence(s) (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (OLD RULES) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to Include the skipped sequences. missing. If intentional, please insert the following lines for each skipped sequence. Skipped Sequences <210> sequence id number (NEW RULES) <400> sequence id number Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of n's or Xaa's Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. (NEW RULES) In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents. Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or Invalid <213> scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or Response is Artificial-Sequence missing the <220> "Feature" and associated numeric identifiers and responses. Usc of <220> Sequence(s) Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules) Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, PatentIn 2.0 resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence "bug" listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk. n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent Misuse of n any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001





RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/976,378

DATE: 01/28/2002 TIME: 14:17:45

Input Set : A:\00-713-i25 seq list.txt Output Set: N:\CRF3\01282002\1976378.raw

-- Does Not Comply Corrected Diskette Needed

3 <110> APPLICANT: Mirkin, Chad A.

Letsinger, Robert L.

5 Mucic, Robert C.

Storhoff, James J. Elghanian, Robert

Taton, Thomas A.

10 <120> TITLE OF INVENTION: NANOPARTICLES HAVING OLIGONUCLEOTIDES ATTACHED THERETO

AND USES THEREFOR

13 <130> FILE REFERENCE: 00-713-125

15 <140> CURRENT APPLICATION NUMBER: 09/976,378

16 <141> CURRENT FILING DATE: 2001-10-12

18 <150> PRIOR APPLICATION NUMBER: 09/603,830

19 <151> PRIOR FILING DATE: 2000-06-26

21 <150> PRIOR APPLICATION NUMBER: 09/344,667

22 <151> PRIOR FILING DATE: 1999-06-25

24 <150> PRIOR APPLICATION NUMBER: 09/240,755

25 <151> PRIOR FILING DATE: 1999-01-29

27 <150> PRIOR APPLICATION NUMBER: PCT/US97/12783

28 <151> PRIOR FILING DATE: 1997-07-21

30 <150> PRIOR APPLICATION NUMBER: 60/031,809

31 <151> PRIOR FILING DATE: 1996-07-29

33 <150> PRIOR APPLICATION NUMBER: 60/200,161

34 <151> PRIOR FILING DATE: 2000-04-26

36 <160> NUMBER OF SEQ ID NOS: 64

38 <170> SOFTWARE: Microsoft Word 2000

## ERRORED SEQUENCES

763 <210> SEQ ID NO: 57

764 <211> LENGTH: 12

765 <212> TYPE: DNA

766 <213> ORGANISM: Anthrax

768 <400> SEQUENCE: 57

E--> 769 taacaatmat cc

see item 9 on Eva Summer, Sheet

12

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/976,378

DATE: 01/28/2002

TIME: 14:17:46

Input Set : A:\00-713-i25 seq list.txt
Output Set: N:\CRF3\01282002\1976378.raw

 $L:769\ M:340\ E:$  (46) "n" or "Xaa" used: Feature required, for SEQ ID#:57